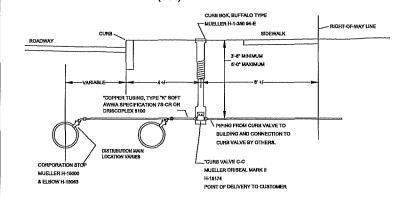
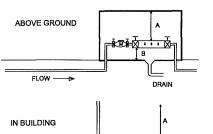
TYPICAL WATER SERVICE

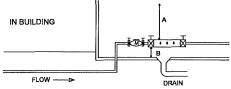


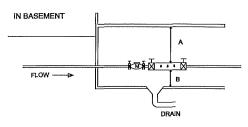
* FOR STANDARD 50' ROADWAY

A SERVICE CLAMP MUST BE USED WHEN THE MAIN SIZE IS 2 INCH OR SMALLER.
ROADWAY BOXES, MUELLER H-10366 144-R, MUST BE USED IN PLACE OF CURB BOXES WHEN LOCATED IN ROADWAYS OR WALKS. CURB VALVE AND CORPORATION STOP MAY HAVE FLARED OR COMPRESSION ENDS.
CORPORATION STOP TO BE INSERTED AT APPROXIMATELY 45 DEG. ANGLE
APPROVED EQUALS MAY BE USED IN PLACE OF SPECIFIED ITEMS.

STANDARD RP UNIT INSTALLATION (C87)







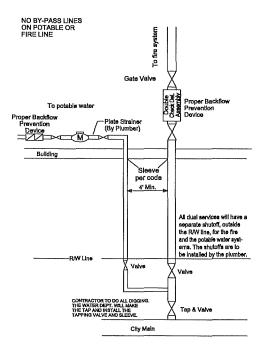
A = ADEQUATE CLEARANCE ABOVE UNIT FOR OPERATION OF VALVES OR REPAIR.

B = MINIMUM CLEARANCE 12", MAXIMUM CLEARANCE 30".

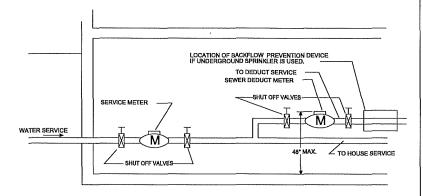
ALL METERS LARGER THAN 1" REQUIRE A BY-PASS ON METER

ALL METERS AND RP UNITS MUST BE PROTECTED FROM FREEZING

TYPICAL DUAL SERVICE

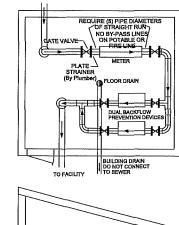


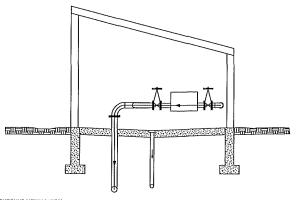
STANDARD SEWER DEDUCT METER **INSTALLATION**



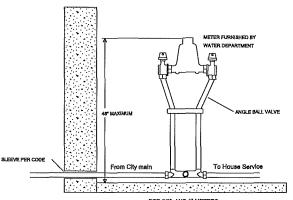
The service meter and the sewer deduct meters must be placed in a meter yoke.

METER AND BACKFLOW PREVENTION HOUSE





COPPERSETTER FOR WATER METER



FOR 5/8", AND 1" METERS

Notes: All meters 1 inch and smaller require a coppersetter for proper installation.

Meters are to be placed in an area which provides easy access to the meter for repairs, replacement, and meter readings. Also require drainage.

Water meters to be placed and installed by Canton Water Department personnel inside the building.



DRAWING NO.

DATE 5-9-89

C-102

CANTON WATER WORKS

STANDARD DRAWINGS SHEET 1

REVISED 12-1-05 RJW REVISED 11-7-02 LAM REVISED 1-21-99 RJW REVISED 7-14-95 LAM	SCALE NONE			
	DRAWN BY	CHECKED		
REVISED 2-22-93	RJW	TD		

HYDRANT SETTING PLAN 6° D.I.P CLASS 53 PIPE CUT TO LENGTH ---- 6" M.J. GATE VALVE AND BOX 4-1/2" NOZZLE-- FINISH GRADE 6" GATE VALVE FILL WITH 1 CUBIC YARD OF STONE **PROFILE**

TYPICAL AIR AND VACUUM RELEASE VALVE CHAMBER MAINS SIZE FROM 16 INCHES AND UP

(C136)

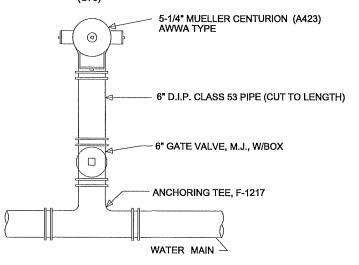
C.I. MANHOLE-STEPS @ 12" NEENAH R-1961 Z.

RED BRASS PIPE NIPPLES SAME SIZE AS VALVE

SMALL ~ TAPPED OUTLET

SHUT OFF VALVE; SAME SIZE AS AIR RELEASE AND/OR VACUUM VALVE.

HYDRANT CONNECTION



HYDRANT SETTINGS CONSIST OF HYDRANT, VALVE, VALVE BOX, FITTINGS AND MATERIALS SHOWN OR SPECIFIED WHICH ARE NEEDED FOR PROPER INSTALLATION.

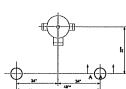
SEE SPECIFICATIONS FOR: MORE INFORMATION ABOUT MATERIALS, SETTING HYDRANTS AND DRAINAGE REQUIREMENTS.

IF RESTRAINED JOINT FITTINGS CANNOT BE USED, (2) TIE RODS AND 94) EYE BOLTS WINUTS AND WASHERS MUST BE USED.

FIGURES SUCH AS F-1217 INDICATE CLOW CORPORATION STYLES, USE THIS BRAND OR APPROVED EQUAL

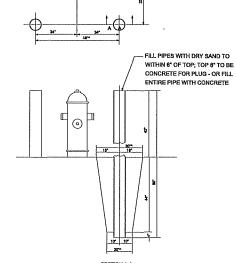
ALL HYDRANTS ARE TO BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET.

HYDRANT POST GUARDS



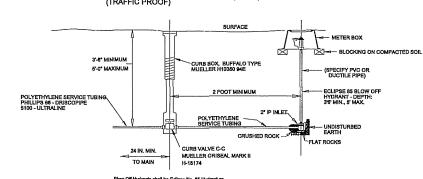
FOR SET OF 2 POSTS 2EA. 6"1x90" UNCOATED STEEL PIPES, MIN. WALL THICKNESS .432* 36CF 1 - 2 - 1/2 - 5 CONCRETE WITH GRAVEL AGGREGATE 1 COAT REDLEAD PRIMER PAINT 2 COATS ORANGE PAINT

MATERIALS REQUIRED



STANDARD BLOW OFF ASSEMBLY

ECLIPSE NO. 85 BLOW-OFF HYDRANT (TRAFFIC PROOF)



Blow-Off Hydrants shell be Eclipse No. 65 Hydrant sa manufactured by John C. Kupferle Foundry Company, 8t. Louis, MC

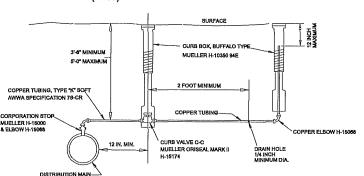


REVISED 1-21-00 LAM REVISED 12-13-04 LAM

CANTON WATER WORKS STANDARD DRAWINGS SHEET 2

SCALE		DRAWING NO.		
NONE		C-103		
DRAWN BY RJW	CHECKED BY		DATE 5-9-89	

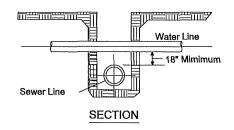
MANUAL AIR RELEASE VALVE MAIN SIZES UP TO AND INCLUDING 12" (C255)



CURB VALVE AND CORPORATION STOP MAY HAVE FLARED OR COMPRESSION ENDS. CORPORATION STOP TO BE INSERTED AT 80 ANGLE APPROVED EQUALS MAY BE USED IN PLACE OF SPECIFIED ITEMS. TO BE USED ON MAINS UP TO AND INCLUDING 12 INCHES

CAST IRON VALVE BOX W/COVER (3 PIECE SCREW TYPE) MUST BE USED WHEN LOCATED IN ROADWAYS OR WALKS.

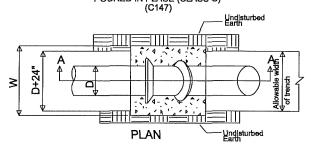
VERTICAL WATER MAIN CLEARANCE

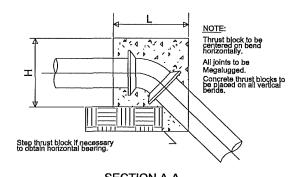


NOTES:

- If joint on water main is within limits of sewer trench, install mechanical bell joint clamp
- If clearance is less than 18", encase sewer pipe 6 ft. each side of water main. To be paid at unit price bid per cubic yard of concrete.
- 3. In no case shall the sewer pipe contact any water main, service line or appurtenance.

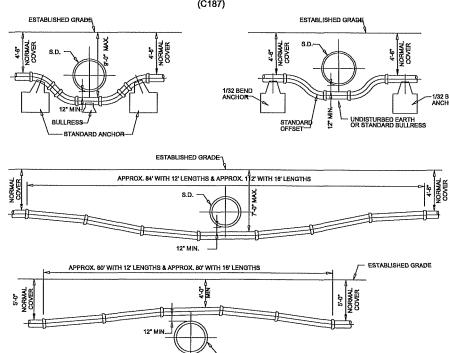
CONCRETE THRUST BLOCKS FOR VERTICAL BENDS ON WATER MAINS POURED IN PLACE (CLASS C) (C147)



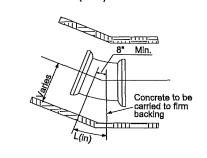


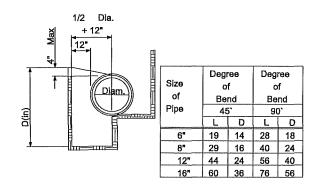
SIZE				DE	GREI	E OF	BENI	D				
	11 ¼				22 ¼			45				
PIPE	L	W	Н	V cu. yds	L	W	Н	V cu. yds	L	W	Н	V cu. yds
6*	12	48	18	0.2	15	43	36	0.5	28	55	24	0.8
8*	12	63	24	0.4	18	57	34	0.7	36	57	33	1.4
12*	20	54	36	0.8	37	62	37	1.7	48	62	51	3.1
16"	31	65	38	1.6	60	65	39	3.0	65	65	65	5.6

WATER MAIN CROSSING STORM DRAIN

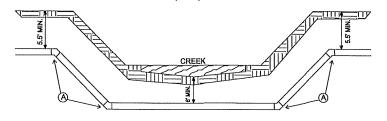


HORIZONTAL THRUST BLOCKS





CREEK CROSSING DETAIL



4 VERTICAL BEND CREEK CROSSING

MECHANICAL JOINT BENDS - RETAINER GLANDS TO BE MEGALUGS
350 PSI RATING W/8 LUGS ON EACH JOINT. ALL 4 BENDS TO
BE RODDED TOGETHER WITH 3/4" RODS AND DUC LUGS.

ALSO TO HAVE CONCRETE THRUST BLOCKS AT ALL BENDS. (C147)

PAY LIMITS - TRENCH & ROADWAY FOR D.I.P.

NEAT CUTS
ALL SIDES

3° - 402 ASPHALT CONCRETE

6° - 304 AGGREGATE BASE FOR PAVEMENT

TRENCH WIDTH AS DEFINED

GRANULAR
BACKFILL
MATERIAL
(IF REQUIRED)

12° MAX
412° MAX
412° MAX
412° MAX
412° MAX
412° MAX
412° MAX
510 MAX



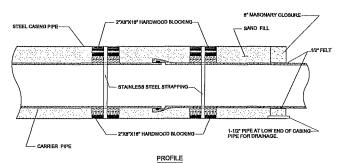
CANTON WATER WORKS
STANDARD DRAWINGS
SHEET 3

BORING / CASING PIPE DETAIL DWG, NO, C378

STAINLESS
STEEL CASING PIPE
SAND FILLED

CARRIER PIPE

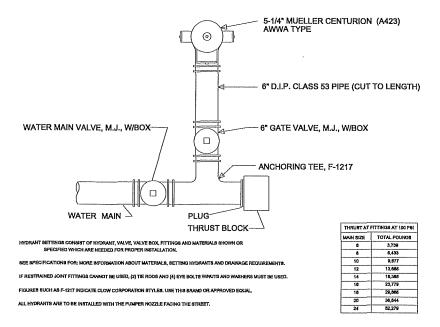
SECTION



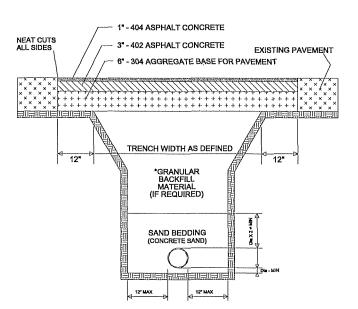
NOTES

- THREE SUPPORTS SHALL BE USED ON EACH LENGTH OF CARRIER PIPE.
 PLACE ONE AT EACH END AND ONE IN THE MIDDLE. THE HARDWOOD
 BLOCKS SHALL BE FORMED TO FIT THE WALL OF THE CASING PIPE.
- THE INSIDE DIAMETER OF THE STEEL CASING PIPE SHALL BE AT LEAST 5 INCHES GREATER THAN THE LARGEST OUTSIDE DIAMETER OF THE CARRIER PIPE JOINTS OR COUPLINGS.
- 3. THE STEEL CASING PIPE SHALL BE AT LEAST 3/8 INCH OR 10 GAUGE STEEL.
- 4. THE ENDS OF THE STEEL CASING PIPE SHALL BE SEALED.
- 5. ANY PIPE JOINTS WITHIN THE CASING PIPE SHALL HAVE A FIELD-LOK GASKET.

HYDRANT CONNECTION AT END OF MAIN DWG.NO.C383



TRENCH DETAIL - C909 PIPE DWG.NO.C385



*CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION WITHIN THE RIGHT-OF-WAY REGARDING BACKFILL REQUIREMENTS



CANTON WATER WORKS STANDARD DRAWINGS

SCALE DRAWING NO.
NONE C-379

SHEET 4

REVISED:6.13.06 LAM